

COLLAPAT® II

Biomatériau de substitution osseuse
A base de collagène et d'hydroxyapatite

Ostéoconducteur et hémostatique

Pour le remplissage de pertes de substance osseuse

Bone substitute biomaterial
Based on collagen and hydroxyapatite

Osteoconductive and haemostatic
For repairing bone substance losses



Distributor:

Manufactured by **SYMATESE**
biomatériaux



■ Advantages

- **COLLAPAT® II** is composed of two of the main constituents of the bone collagen and hydroxyapatite.
- **COLLAPAT® II** can be impregnated with an antibiotic solution in the event of septic bone infection.
- **COLLAPAT® II** is osteoconductive:
It enables rapid regeneration tissue growth in the collagen network by means of the hydroxyapatite granules.
- **COLLAPAT® II** is moldable:
Due to its spongy structure, the product takes the consistency of a paste in contact with blood or tissue fluids, enabling optimal adaptation to the shape of the bone surface.
- **COLLAPAT® II** is haemostatic:
When applied in haemorrhagic lesion, **COLLAPAT® II** stops the blood flow in a few minutes.
- **COLLAPAT® II** makes it possible to avoid costly autologous or allogenic transplantation operations.

■ Recommandations for use

COLLAPAT® II must be implanted in the areas in contact with live bone to enable strong bone regeneration.

Shelf-life:

COLLAPAT® II can be stored for three years in its original packaging, from the sterilisation date. The expiry date is printed on each unit box.

■ Presentation

COLLAPAT® II is available in three sizes :

REF. PAT35X6 : 3,5 x 6 x 0,6 cm

REF. PAT7X11 : 7 x 11 x 0,6 cm

REF. PAT1X1 : 1 x 1 x 1 cm

COLLAPAT® II is presented in double packaging, impermeable to light, in unit box form, sterilised with Beta rays.



■ Indications

In orthopaedics:

COLLAPAT® II is used to promote the repair of various types of bone lesions:

- After extracting cortico-spongoid bone fragments.
- After tumour resection.
- When changing an implant.
- In surgical spondylodeses.
- In cases of pseudarthrosis.
- In certain fractures treated by osteosynthesis.

COLLAPAT® II is also used to induce bone substance replacement **in maxillo facial surgery and stomatology**.

Etude de Performance / Performance Study:

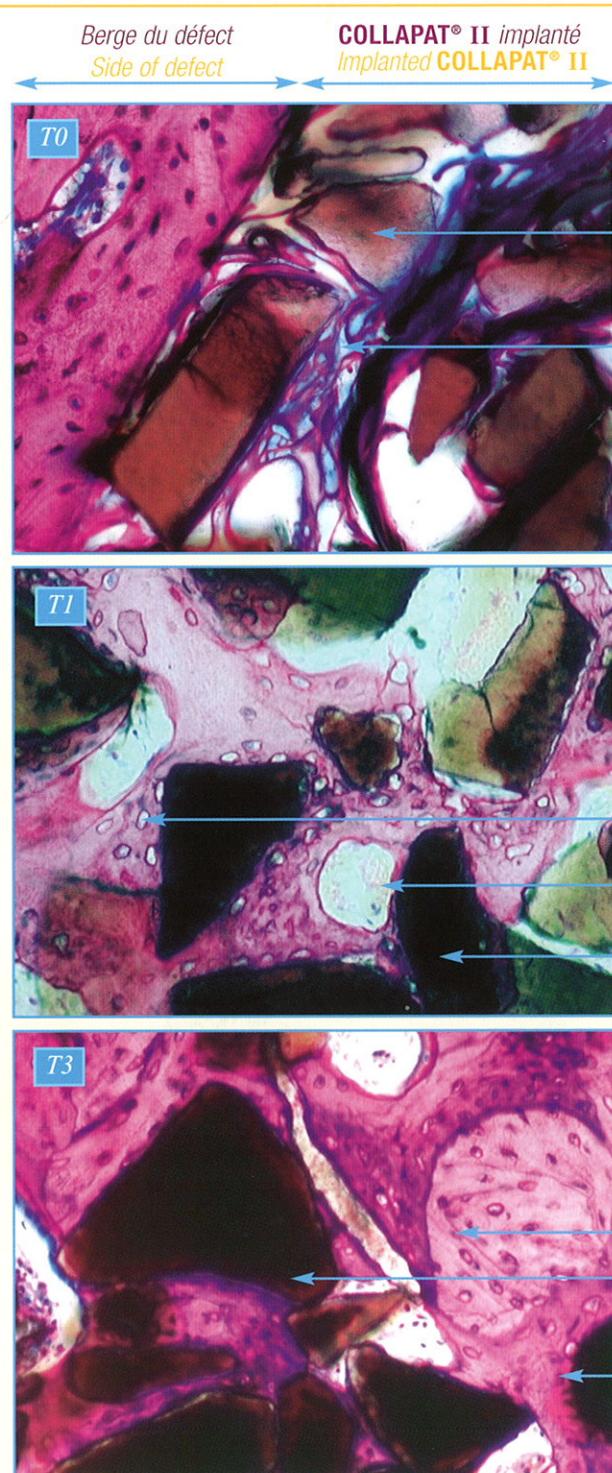
■ Principe :

Les propriétés ostéoconductrices du **COLLAPAT® II** ont été démontrées par une étude sur le lapin. Le **COLLAPAT® II** a été implanté dans un défaut cortico-spongieux de 4,2 mm de diamètre en site fémoral. L'évolution de la repousse osseuse est évaluée sur les coupes histologiques d'échantillons inclus en résine au grossissement 20 de T0 à T3 mois.

■ Principle:

The osteoconductive properties of **COLLAPAT® II** were demonstrated by means of a study on rabbits. **COLLAPAT® II** was implanted in a corticocancellous defect 4.2 mm in diameter in the femoral site. The progression of bone regrowth was evaluated on histological sections from specimens included in resin magnified by a factor of 20 from T0 to T3 months.

■ Résultat de l'étude / Result of study:



T0 : Jour d'implantation

Les granules d'hydroxyapatite sont dispersées dans la trame de collagène.

T0 : Implantation date

The hydroxyapatite granules are dispersed in the collagen matrix.

Granule d'hydroxyapatite.
Hydroxyapatite granule.

Collagène.
Collagen.

T1 : Os primaire

Après 1 mois, le collagène est complètement résorbé et les sites implantés sont largement colonisés par du tissu osseux néoformé primaire, avec des signes d'apposition direct, os-particules d'hydroxyapatite.

T1 : Primary bone

After 1 month, the collagen has been completely resorbed and the implanted sites are largely colonised with primary neoformed bone tissue, with signs of direct bone-hydroxyapatite particle apposition.

Tissu osseux néoformé primaire.
Primary neoformed bone tissue.

Formation de néovaisseaux.
Neovascularisation.

Granule d'hydroxyapatite.
Hydroxyapatite granule.

T3 : Os mature

Après 3 mois, la reconstruction osseuse est complète et est caractérisée par un tissu osseux remodelé mature.

T3 : Mature bone

After 3 months, the bone reconstruction is complete and is characterised by mature remodeled bone tissue.

Lamelle osseuse et densité ostéocytaire accrue.
Bone lamella and increased osteocytic density.

Granule d'hydroxyapatite.
Hydroxyapatite granule.

Formation d'un tissu médullaire normal.
Normal medullary tissue formation.

- Le **COLLAPAT® II** permet une reconstruction osseuse précoce et complète à trois mois.
- Le **COLLAPAT® II** est parfaitement ostéointgré sans réaction locale indésirable.

- **COLLAPAT® II** enables early bone reconstruction, completed within three months.
- **COLLAPAT® II** is perfectly integrated into the bone without undesirable local reactions.

Fabricant / Manufacturer:

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